

10/561396

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number  
**WO 2004/110487 A1**

(51) International Patent Classification<sup>7</sup>: **A61K 39/395**,  
38/16, 48/00

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
PCT/IL2004/000528

(22) International Filing Date: 17 June 2004 (17.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
156495 17 June 2003 (17.06.2003) IL  
60/490,961 30 July 2003 (30.07.2003) US

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **PRO-CHON BIOTECH LTD.** [IL/IL]; P.O. Box 1482, 76114 Rehovot (IL).

**Published:**

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **YAYON**, Avner [IL/IL]; Sitria 104, 76834 Moshav Sitria (IL).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(74) Agent: **WEBB, Cynthia**; Webb & Associates, P.O. Box 2189, 76121 Rehovot (IL).



WO 2004/110487 A1

(54) Title: TREATMENT OF T CELL MEDIATED DISEASES BY INHIBITION OF FGFR3

(57) Abstract: The present invention provides a method of preventing and treating a T cell mediated disease, including inflammatory autoimmune diseases and in particular rheumatoid arthritis, by administering to an individual in need thereof at least one FGFR 3 inhibitor including a molecule comprising the antigen-binding portion of an antibody having a specific affinity for fibroblast growth factor receptor 3 (FGFR3), a FGFR3 specific small organic molecule tyrosine kinase inhibitor, a FGFR3 specific soluble receptor, a FGFR3 peptide or peptidomimetic, a FGFR3 specific RNA inhibitor, a FGFR3 specific antagonist ligand or a DNA vaccine encoding FGFR3 or a fragment thereof, or an inhibitor of heparan sulfate binding.